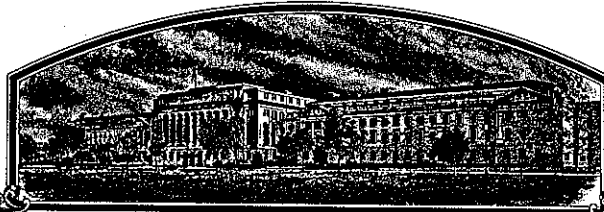


No.



8400136

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

**Rohm and Haas Seeds Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREBY ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (U.S.C. 1930-1942, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'RHS 8232'



Attest

*Kenneth H. Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 31st day of October in  
the year of our Lord one thousand nine  
hundred and eighty-five.

*John R. Block*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
WAREHOUSE & SEED DIVISION

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S) <del>Northrup King Co.</del> <b>ROHM AND HAAS SEEDS INC.</b>		2. TEMPORARY DESIGNATION <b>X 3271</b>	3. VARIETY NAME <b>RHS 8232</b>
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) <b>P. O. Box 959 INDEPENDENCE MALL Minneapolis, MN 55440 PHILADELPHIA, PA 19105</b>		5. PHONE (Include area code) <b>(612) 781-8011 (215) 641-7838</b>	FOR OFFICIAL USE ONLY VPVO NUMBER <b>8400136</b>
6. GENUS AND SPECIES NAME <b>Triticum aestivum L. em Thell.</b>	7. FAMILY NAME (Botanical) <b>Gramineae</b>		FILING DATE <b>7/16/84</b> TIME <b>2:30</b> <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.
8. KIND NAME <b>Common Wheat</b>	9. DATE OF DETERMINATION <b>September 1981</b>		FEES RECEIVED AMOUNT FOR FILING <b>\$ 1,800</b> DATE <b>7/16/84</b> AMOUNT FOR CERTIFICATE <b>\$ 200</b> DATE <b>9/18/85</b>
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <b>Corporation</b>			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>Delaware</b>			12. DATE OF INCORPORATION <b>1896</b>

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

**Robert W. Romig DR. JAMES E. STROIKE Independence Mall West**  
**Northrup King Co. 727 NORRISTOWNE ROAD Phila, PA 19105**  
**P. O. Box 959 BUILDING 70 (215) 641-7838**  
**Minneapolis, MN 55440 SPRING HOUSE, PA 19477 PHONE (Include area code): (612) 781-5305**

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED

a. ☒ Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)c. ☒ Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)b. ☒ Exhibit B, Novelty Statementd. ☒ Exhibit D, Additional Description of the Variety

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.)

☐ Yes (If "Yes," answer items 16 and 17 below)☒ No

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ Yes☐ No

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ Foundation☐ Registered☐ Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ Yes (If "Yes," give date)☒ No

19. HAS THE VARIETY BEEN OFFERED FOR SALE OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ Yes (If "Yes," give names of countries and dates)☒ No

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

DATE

July 10, 1984

SIGNATURE OF APPLICANT

DATE

8400136

**Exhibit A**  
**Origin and Breeding History of RHS 8232**

The variety RHS 8232 is a soft red winter wheat derived from the cross McNair 1813/Missouri 7402. We made this cross in 1970 at Laurinburg, North Carolina. We grew the  $F_1$  generation during the 1970-71 growing season. We selected individual heads<sub>1</sub> from the  $F_2$  to  $F_4$  generations following a pedigree method of breeding.

In 1975, we cut an  $F_5$  row in bulk for subsequent trials in 1976, 1977 and 1978. From the  $F_6$  bulk, we selected heads for a maintenance breeding project on this variety. In 1977, we bulked the uniform head rows and in 1978 grew this  $F_8$  population in a OIA plot for increase. Seed from this plot entered the 1978-79 Uniform Southern Soft Wheat Nursery for trial and our trials in 1979 and 1980. We designated this as variety X 3271.

In 1980, we selected 10 heads from the  $F_9$  generation in our trials. We then grew these in individual head-rows in 1980-81 at Yuma, Arizona. We harvested 9 of these individually and planted larger head-row derived blocks in 1983 at Yuma, Arizona. In 1983-84, we planted nine blocks, each derived from a single head, at Marion, Arkansas. One of these was discarded and the remaining eight uniform blocks were bulked to provide breeders seed.

These eight components have been uniform and stable during increases in the Yuma, Arizona and Marion, Arkansas environments. On this basis, we feel the variety is uniform and stable.

8400136

**Exhibit B**  
**Novelty Statement**

Variety RHS 8232 is most similar to S-76 but differs in head color. Head color for RHS 8232 is brown whereas that of S-76 is white.

U. S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION  
BELTSVILLE, MARYLAND 20785

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Northrup King Co.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 959  
Minneapolis, MN 55440

FOR OFFICIAL USE ONLY

PVPO NUMBER

8400136

VARIETY NAME OR TEMPORARY  
DESIGNATION

X 3271

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.  or ) when number is either 99 or less or 9 or less.

## 1. KIND:

1 = COMMON    2 = DURUM    3 = EMMER    4 = SPELT    5 = POLISH    6 = POULARD    7 = CLUB

## 2. TYPE:

1 = SPRING    2 = WINTER    3 = OTHER (Specify) \_\_\_\_\_  1 = SOFT    3 = OTHER (Specify) \_\_\_\_\_  
2 = HARD

1 = WHITE    2 = RED    3 = OTHER (Specify) \_\_\_\_\_

## 3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING     LAST FLOWERING

## 4. MATURITY (50% Flowering):

NO. OF DAYS EARLIER THAN .....  1 = ARTHUR    2 = SCOUT    3 = CHRIS  
 NO. OF DAYS LATER THAN .....  4 = LEMHI    5 = NUGAINES    6 = LEEDS

## 5. PLANT HEIGHT (From soil level to top of head):

CM. HIGH  
 CM. TALLER THAN .....   
 CM. SHORTER THAN .....  1 = ARTHUR    2 = SCOUT    3 = CHRIS  
4 = LEMHI    5 = NUGAINES    6 = LEEDS

## 6. PLANT COLOR AT BOOTING (See reverse):

1 = YELLOW GREEN    2 = GREEN    3 = BLUE GREEN

## 7. ANTHUR COLOR:

1 = YELLOW    2 = PURPLE

## 8. STEM:

Anthocyanin: 1 = ABSENT    2 = PRESENT     Waxy bloom: 1 = ABSENT    2 = PRESENT  
 Hairiness of last internode of rachis: 1 = ABSENT    2 = PRESENT     Internodes: 1 = HOLLOW    2 = SOLID  
 NO. OF NODES (Originating from node above ground)     CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

## 9. AURICLES:

Anthocyanin: 1 = ABSENT    2 = PRESENT     Hairiness: 1 = ABSENT    2 = PRESENT

## 10. LEAF:

Flag leaf at booting stage: 1 = ERECT    2 = RECURVED     Flag leaf: 1 = NOT TWISTED    2 = TWISTED  
3 = OTHER (Specify): \_\_\_\_\_  
 Hairs of first leaf sheath: 1 = ABSENT    2 = PRESENT     Waxy bloom of flag leaf sheath: 1 = ABSENT    2 = PRESENT  
 MM. LEAF WIDTH (First leaf below flag leaf)     CM. LEAF LENGTH (First leaf below flag leaf):

**Exhibit D**  
**Additional Description of RHS 8232**

Milling & Baking Scores from 1979-80  
 Uniform Southern Soft Red Winter  
 Wheat Nursery (Composite of Nine Locations)

Character	Variety		
	Arthur 71	Stacy	RHS 8232
Test Weight/Kg./Ha.	80.2	79.1	77.3
Protein %	11.6	11.2	10.3
Ash %	1.65	1.57	1.57
Particle Size Index %	41.2	35.0	38.5
Flour Yield %	76.1	75.3	75.1
Flour Protein %	9.6	9.1	8.4
Cookie Diam. CM	17.6	17.1	17.2
Cake Volume ML	1096	1072	1108
Cake Internal Score	87	82	83

ASSIGNMENT OF UNITED STATES PLANT  
VARIETY PROTECTION CERTIFICATES

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Northrup King Co., a Delaware corporation having an office at 1500 Jackson Street N.E., Minneapolis, Minnesota 55413, does hereby sell, assign, transfer and convey to Rohm and Haas Seeds Inc., a Delaware corporation, Independence Mall West, Philadelphia, Pennsylvania 19105, the entire right, title and interest in and to the following United States Plant Variety Protection Certificates together with all the rights described and claimed therein:

<u>Certificate Number</u>	<u>Variety</u>	<u>Date Issued</u>
7500005	Prodax	June 30, 1975
7800010	Solar	March 29, 1979
8200002	Walera	June 17, 1982
8100013	711	December 10, 1981
	715	Applied for in 1983
8200033	817	June 17, 1982
8200094	830	September 23, 1982
8200006	835	March 11, 1982
7200038	McNair 701	February 26, 1974
7700084	McNair 1003	August 10, 1978
7500006	McNair 1813	May 1, 1975
7200037	McNair 4823	April 8, 1975
	✓ RHS 8232	Applied for in 1984

the same to be held and enjoyed by said Rohm and Haas Seeds Inc. for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives, for the full term or terms for which said Certificates are or may be granted or reissued, as fully and entirely as the same would have been held and

enjoyed by said Northrup King Co. if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of said Certificates, including the right to sue for and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, Northrup King Co. has caused this assignment to be executed by its duly authorized officer, effective the 20<sup>TH</sup> day of JULY, 1984.

NORTHROP KING CO.

By: George L. Jones

(CORPORATE SEAL)

STATE OF MINNESOTA     )  
                                      ) ss.  
COUNTY OF HENNEPIN    )

On this 20<sup>TH</sup> day of JULY, 1984, before me, a Notary Public in and for the county and state aforesaid, personally appeared GEORGE L. JONES, to me personally known, who, being by me duly sworn, did say that he is the PRESIDENT of Northrup King Co.; that the seal affixed to the foregoing assignment is the corporate seal of Northrup King Co. and that the assignment was executed in behalf of Northrup King Co. by authority of its board of directors; and did acknowledge the assignment to be the free act and deed of Northrup King Co.

Witness my hand and seal the day and year set forth above.

Edward C. Resler  
Notary Public

